

## ABSTRACT

An internal combustion rotary engine comprising a casing , end covers and a rotor including a number of chambers , an output shaft as the rotor axis , planet gears each mounted on a small shaft which is a part of planet gear fixing support and the supports being fixed on one or both side(s) of the rotor , rotationally reciprocating pistons in piston chambers , piston pins as the axes of rotation of the pistons and piston rods connecting the pistons to planet gears .

This rotary engine is characterized by the ignition force causing a piston to rotate around its axis and pulling the piston rod and the piston rod causing a planet gear to rotate around its axis .The planet gears mesh with a sun gear(s) fixed to the engine block on one or both side(s) of the casing. The rotation of each planet gear makes the planet gear move on the sun gear and this makes the rotor shaft rotate .